Atty. Dkt. No. 041673-0301

Listing of Claims:

- 1. A <u>nucleic acid</u> eDNA segment encoding a lysophospholipid-specific human brain lysophospholipase enzyme protein molecule, comprising the <u>nucleotide</u> sequence of SEQ.ID.No. 1.
- a segment of 690 deoxyribonucleotide base pairs from position 448 to position 741 in Figure 1.
- (Cancelled).
- 3. (Withdrawn) A recombinant lysophospholipid-specific human brain lysophospholipase enzyme protein molecule, comprising:
 - a single 25 kDa polypeptide having 230 amino acid residues; and a catalytic activity site triad at S34-119, Asp-174 and His-208.
- 4. (Withdrawn) An amino acid residue sequence for a recombinant lysophospholipidspecific human brain lysophospholipase enzyme protein molecule, comprising: amino acid residues from amino acid residue position 1 to amino acid residue position 230 in Figure 1.
- 5. (Withdrawn) A method for inhibiting catalytic activity of a recombinant lysophospholipid-specific human brain lysophospholipase enzyme protein molecule, comprising: exposing the lysophospholipase enzyme protein molecule to a solution containing methyl arachidonyl fluorophosphates.
- 6. (Withdrawn) The method for inhibiting catalytic activity according to claim 5, wherein the inhibiting resulting from the exposing is irreversible.
- 7. (Withdrawn) A method for treating patients with diseases caused by increased levels of lysophospholipids, comprising:
- supplying a recombinant lysophospholipid-specific lysophospholipase enzyme to an enzyme deficient patient.
- 8. (Withdrawn) The method for treating patients according to claim 7, wherein the supplying transpires by infusion.
- 9. (Withdrawn) The method for treating patients according to claim 7, wherein the supplying transpires by gene augmentation therapy.
- 10. (New) A recombinant expression vector containing the nucleic acid according to claim 1.
- 11. (New) A host cell containing the recombinant expression vector of claim 10.

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12. (New) A pharmaceutical composition comprising the nucleic acid of claim 1 and a pharmaceutically acceptable carrier.